



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Douglas W. Domenech
Secretary of Natural Resources

PIEDMONT REGIONAL OFFICE
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David K. Paylor
Director

Michael P. Murphy
Regional Director

May 7, 2013

Ms. Cathy C. Taylor
Director, Electric Environmental Services
Virginia Electric and Power Company
d/b/a Dominion – Darbytown CT Station
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Location: Henrico County
Registration No.: 50997

Dear Ms. Taylor:

Attached is a renewal Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit incorporates provisions from the permit dated March 5, 2013.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on March 5, 2013 and solicited written public comments by placing a newspaper advertisement in the Style Weekly on March 27, 2013. The thirty day comment period (provided for in 9 VAC 5-80-270) expired on April 26, 2013. The concurrent EPA review ended on May 6, 2013 with no comments having been received in this office.

This approval to operate does not relieve Virginia Electric and Power Company of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact the regional office at (804) 527-5020.

Sincerely,



James E. Kyle, P.E.
Regional Permit Manager

JEK/JH/52158-3-12 TVpermit

Attachments: Permit

NSPS, Subpart GG: <http://ecfr.gpoaccess.gov/>

(Directions: select Title 40, click on 60.1-60.5430, open the Table of Contents and select Subpart GG)

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
Manager/Inspector, Air Compliance



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, and Chapter 140 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, and 9 VAC 5-140-10 through 9 VAC 5-140-900 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Virginia Electric and Power Company
Facility Name:	Dominion – Darbytown CT Station
Facility Location:	6001 Fergus Boulevard Richmond, Virginia 23231

Registration Number:	50997
Permit Number:	PRO50997

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 4-25)

Federally Enforceable Requirements – Clean Air Interstate Rule (CAIR) Requirements (Page 25)

May 28, 2013

Effective Date

May 27, 2018

Expiration Date



Kyle Ivar Winter, P.E.

Deputy Regional Director

May 7, 2013

Signature Date

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Facility Information

Permittee

Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Responsible Official

Mr. Kenneth Lazzaro
Station Director – Fossil & Hydro

Facility

Dominion – Darbytown CT Station
6001 Fergus Boulevard
Richmond, Virginia 23231

Contact Person

Cathy C. Taylor
Director, Electric Environmental Services
804-273-2929

County-Plant Identification Number: 51-087-0156

Facility Description: NAICS 221112 – Electric Power Generation
SIC 4911 – Electrical Services

The Virginia Electric Power Dominion – Darbytown CT Station is an electric power generation facility. Natural gas is received via gas pipelines to operate up to four General Electric Model PG711-EA simple cycle turbines each rated at 1,308 MMBtu/hr on natural gas. No. 2 fuel oil is also available to fire any or all of the turbines, which are rated at 1,250 MMBtu/hr on No. 2 fuel oil.

The turbines were originally installed in 1989 and all turbines are subject to the requirements of 40 CFR 60, Subpart GG- *Standards of Performance for Stationary Gas Turbines*. The facility is a Title V major source of SO₂ and NO_x pollutants. This source is located in an attainment area for all pollutants and is a minor source under PSD regulations. The area is in VOC and NO_x control areas. The facility was originally permitted under a minor NSR permit issued on September 7, 1989. Since then, this permit and the Title V permit have been amended as follows:

- May 1, 2000 - The facility was modified to add inlet air-cooling.
- January 10, 2003 - Permit amended to clarify ambiguous terms relating to the operation of the inlet air cooling system.
- June 1, 2003 – Title V issued.
- December 1, 2003 – Title V amended to add NO_x Budget Program.
- September 16, 2004 – Title V amended to further clarify periodic monitoring of the turbines.
- May 27, 2005 – Permit amended to add in Appendix A from NSPS, Subpart GG.
- July 14, 2005 – Title V amended to add in Appendix A from NSPS, Subpart GG.
- March 28, 2008 – Permit amended to install and operate wet compression systems.
- March 5, 2013 – Permit amended to remove obsolete requirements and make other updates.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
ES-1a	EP-1	General Electric PG7111-EA Turbine Unit 1 firing gas	1308 MMBtu/hr	water injection	CD-1	NO _x	3/5/13
ES-1b	EP-1	General Electric PG7111-EA Turbine Unit 1 firing oil	1250 MMBtu/hr	water injection	CD-1	NO _x	3/5/13
ES-2a	EP-2	General Electric PG7111-EA Turbine Unit 2 firing gas	1308 MMBtu/hr	water injection	CD-2	NO _x	3/5/13
ES-2b	EP-2	General Electric PG7111-EA Turbine Unit 2 firing oil	1250 MMBtu/hr	water injection	CD-2	NO _x	3/5/13
ES-3a	EP-3	General Electric PG7111-EA Turbine Unit 3 firing gas	1308 MMBtu/hr	water injection	CD-3	NO _x	3/5/13
ES-3b	EP-3	General Electric PG7111-EA Turbine Unit 3 firing oil	1250 MMBtu/hr	water injection	CD-3	NO _x	3/5/13
ES-4a	EP-4	General Electric PG7111-EA Turbine Unit 4 firing gas	1308 MMBtu/hr	water injection	CD-4	NO _x	3/5/13
ES-4b	EP-4	General Electric PG7111-EA Turbine Unit 4 firing oil	1250 MMBtu/hr	water injection	CD-4	NO _x	3/5/13
Degreasing Operations							
ES-5	ES-5	Miscellaneous Parts Washer	Various	None	None	VOCs	N/A

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

Fuel Burning Equipment Requirements – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b)

1. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Nitrogen oxide emissions from the simple cycle combustion turbines shall be controlled by the utilization of water injection when firing natural gas and No.2 distillate fuel oil. The simple cycle combustion turbines shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 40 CFR 60.332, and Condition 2 of the 3/5/13 Permit)
2. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Sulfur dioxide emissions from the simple cycle combustion turbines shall be controlled by the use of low sulfur fuels.
(9 VAC 5-80-110, 40 CFR 60.333 and Condition 3 of the 3/5/13 Permit)
3. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Particulate matter emissions from the simple cycle combustion turbines shall be controlled by the use of clean burning fuels and good combustion operating practices.
(9 VAC 5-80-110 and Condition 4 of the 3/5/13 Permit)
4. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Volatile organic compounds and carbon monoxide emissions from the simple cycle combustion turbines shall be controlled by the use of good combustion practices.
(9 VAC 5-80-110 and Condition 5 of the 3/5/13 Permit)
5. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - To comply with the short-term emissions limits in this permit, the control system for each inlet air cooling system and each wet compression system shall be programmed with interlocks such that each cooling system can only be operated when the ambient air temperature exceeds 60° F and the associated turbine is operating at a load that exceeds 60 megawatts.
(9 VAC 5-80-110, 9 VAC 5-50-20 C, and Condition 6 of the 3/5/13 Permit)
6. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The Inlet Air Conditioning Systems and the Wet Compression Systems, for each of the four gas turbines, shall only be used when the combustion turbines are operating at 60 megawatts or greater.
(9 VAC 5-80-110 and Condition 12 of the 3/5/13 Permit)
7. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The approved fuels for the simple cycle combustion turbines are pipeline quality natural gas and No. 2 distillate fuel oil. Distillate oil is defined as fuel oil that meets the specifications for Fuel Oil Numbers 1 or 2 under the American Society for Testing and Materials, ASTM 396 Standard Specification for Fuel Oils, or other approved ASTM method, incorporated in 40 CFR 60 by reference. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 13 of the 3/5/13 Permit)

8. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The maximum sulfur content of the natural gas to be burned in the simple cycle combustion turbines shall not exceed 0.06 weight percent.
 (9 VAC 5-80-110 and Condition 15 of the 3/5/13 Permit)

9. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The maximum sulfur content of the oil to be burned in the simple cycle combustion turbine shall not exceed 0.20 weight percent per shipment (as defined in Appendix A). The maximum Fuel Bound Nitrogen (FBN) content of the oil to be burned in the simple cycle combustion turbine shall not exceed 0.05 weight percent per shipment (as defined in Appendix A).
 (9 VAC 5-80-110, 9 VAC 5-170-160, and Condition 16 of the 3/5/13 Permit)

10. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The four simple cycle combustion turbines combined shall not consume more than the quantity of natural gas and No. 2 distillate oil fuel annually, calculated monthly as the sum of each consecutive 12 month period, as follows:
 - a. Natural gas – 3,100,000,000 scf annually when firing natural gas 100% of the time.
 - b. No. 2 distillate oil – $13,600,000 - 2,100,000 * (FBN - 0.015) / 0.035$ gallons annually when firing No. 2 distillate oil 100% of the time. Fuel Bound Nitrogen (FBN) is equal to % FBN by weight annual average, but not less than 0.015% firing No. 2 distillate oil 100% of the time.
 - c. When the four simple cycle combustion turbines are firing both No. 2 distillate oil and natural gas during the period individually or in combination, the annual consumption shall be limited by the following equation to limit NO_x and SO₂ to less than 250 tons per year, where: (scf natural gas used/ 3,100,000,000 scf) + (gallons of No. 2 distillate oil used/ No. 2 distillate oil limit in gallons from b.) is less than or equal to 1.
 (9 VAC 5-80-110 and Condition 14 of the 3/5/13 Permit)

11. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Short-term emission limits from the operation of each simple cycle combustion turbine while fired on natural gas shall not exceed the limits specified below (except during start-up, shutdown and malfunction conditions):

Particulate Matter		6.3	lbs/hr
PM-10		6.3	lbs/hr
Sulfur Dioxide	5.1×10^{-2}	lbs/MMBtu	66.0 lbs/hr
Nitrogen Oxides (as NO ₂)	42	ppmdv @ 15% O ₂	199.4 lbs/hr
Volatile Organic Compounds			2.0 lbs/hr
Carbon Monoxide			26.5 lbs/hr

(9 VAC 5-80-110, 40 CFR 60.332-3, and Condition 17 of the 3/5/13 Permit)

12. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Short-term emission limits from the operation of each simple

cycle combustion turbine while fired on No. 2 distillate fuel oil shall not exceed the limits specified below (except during start-up, shutdown and malfunction conditions):

Particulate Matter		12.5 lbs/hr
PM-10		12.5 lbs/hr
Sulfur Dioxide	2.0×10^{-1} lbs/MMBtu	253.7 lbs/hr
Nitrogen Oxides (as NO ₂)	65* ppm _{dv} @ 15% O ₂	321.6 lbs/hr
*(Fuel Bound Nitrogen less than 0.015% by weight)		
Nitrogen Oxides (as NO ₂)	77** ppm _{dv} @ 15% O ₂	381.4 lbs/hr
**(Fuel Bound Nitrogen less than or equal to 0.05% by weight)		
Volatile Organic Compounds		6.3 lbs/hr
Carbon Monoxide		28.6 lbs/hr

(9 VAC 5-80-110, 40 CFR 60.332-3, and Condition 18 of the 3/5/13 Permit)

13. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - The terms "start-up" and "shutdown" shall be defined as follows:

Start-up: The period, for each unit start command, from the beginning of "warm up" control mode or from the point a restart is issued for a running unit in shutdown mode and continuing to the end of the first hour of water injection logging for NO_x control.

Shutdown: The period, for each unit stop command, from when the control "shutdown" mode begins and continuing until no fuel is being combusted or until a restart command is received, whichever occurs first.

(9 VAC 5-80-110, 9 VAC 5-170-160, and Condition 19 of the 3/5/13 Permit)

14. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Visible emissions from the simple cycle combustion turbines shall not exceed ten percent (10%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty percent (30%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110, 9 VAC 5-50-80 and Condition 21 of the 3/5/13 Permit)

15. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Combustion turbine emissions shall be controlled by proper operation and maintenance. Turbine operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.

(9 VAC 5-80-110 and 9 VAC 5-50-20)

16. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Except where this permit is more restrictive than the applicable requirement, the simple cycle combustion turbines shall be operated in compliance with all applicable requirements of 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines.

(9 VAC 5-80-110, 40 CFR 60.330, and Condition 22 of the 3/5/13 Permit)

17. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Limitations** - Except where this permit is more restrictive than the applicable requirement, the combustion turbine generating station shall comply with all applicable provisions of 40 CFR Part 75.
(9 VAC 5-140-10 et seq. and 40 CFR 75)
18. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring** – The continuous monitoring system shall be operated (as approved by the DEQ) to indicate/determine and record the hourly fuel consumption and the ratio of water to fuel oil being fired in the simple cycle combustion turbine. The system shall be accurate to within ± 5.0 percent and shall be approved by the DEQ, Piedmont Regional Office (PRO). The monitoring system shall be operated at all times that water is being injected into the simple cycle combustion turbines. The monitoring system shall be maintained and calibrated in accordance with the manufacturer's specifications. A 30 day notification prior to the demonstration of continuous monitoring system performance is to be submitted to the DEQ, Piedmont Regional Office. The permittee shall maintain the records of the simple cycle combustion turbine fuel oil consumption and ratio of water to fuel oil being fired at the site. These records shall be kept on file for the most current five-year period and available for inspection by DEQ personnel.
(9 VAC 5-80-110, 9 VAC 5-50-20 C, 40 CFR 60.334, and Condition 7 of the 3/5/13 Permit)
19. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring** - The permittee shall monitor the sulfur content of the natural gas being fired in the simple cycle combustion turbines, in accordance with Subpart GG of the NSPS and the US EPA custom fuel monitoring schedule, approved on July 2, 1998. These records shall be available on site for inspection by the DEQ and kept on file for the most current five-year period.
(9 VAC 5-80-110, 9 VAC 5-50-20 C, and Condition 8 of the 3/5/13 Permit)
20. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring** - The permitted facility shall not be required to monitor the nitrogen content of the natural gas fuel (previously required by NSPS Subpart GG). The nitrogen-monitoring requirement has been waived, by the Administrator of the US EPA, in the US EPA custom fuel-monitoring schedule, approved on July 2, 1998.
(9 VAC 5-80-110, 9 VAC 5-50-20, 40 CFR 60.334, and Condition 9 of the 3/5/13 Permit)
21. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring** - The permittee shall perform visible emissions observations (VEO's) on the exhaust stack of each General Electric Model PG7111-EA simple cycle combustion turbine (ES-1, ES-2, ES-3, and ES-4) according to the following schedule:

Operating Schedule/History	Observation Frequency
a. < 20 hrs / yr	No evaluations required
b. 20 hrs / yr < hours operated < 200 hrs / yr	Once per year
c. Hours operated > 200 hrs / yr	Once every 200 hours

Each VEO shall be performed for a sufficient period of time to identify the presence of visible emissions. If no visible emissions are observed, no action shall be required. However, if visible emissions are observed, a visible emissions evaluation (VEE) shall be conducted using 40 CFR Part 60, Appendix A, Method 9 for a period of not less than 6-minutes. If the average opacity exceeds 10%, modifications and/or repairs shall be performed to correct the problem and the corrective measures shall be recorded. If such corrective action fails to remedy the opacity problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method

9, shall be performed for a period of at least 18 minutes to determine compliance with the opacity limits specified in Condition 14 of this permit. The VEE observer shall be currently Method 9 certified.

(9 VAC 5-80-110 E)

22. Fuel Burning Equipment Requirements – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - Monitoring - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the combustion turbines:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance for the turbines.
- b. Develop an inspection schedule, monthly at a minimum, to insure operational integrity of the turbines and maintain records of inspection results.
- c. Have available written operating procedures for the turbines. These procedures shall be based on the manufacturer's recommendations, at a minimum, if such recommendations exist.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance, inspections, and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110, 9 VAC 5-40-20, 9 VAC 5-50-20, and Condition 31 of the 3/5/13 Permit)

23. Fuel Burning Equipment Requirements – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - Monitoring - Compliance Assurance Monitoring (CAM) - The permittee shall monitor, operate, calibrate and maintain the water injection controlling the simple cycle combustion turbines according to the following:

Monitoring, Frequency, Records	Performance Criteria	Indicator Range; Averaging Period
<ul style="list-style-type: none"> Continuously monitor fuel consumption and the water-to-fuel ratio. Records shall be collected by a computerized system. The system shall collect and retain all relevant data. 	<ul style="list-style-type: none"> Fuel and water flow meters to have minimum accuracy of 5% and to be calibrated prior to each stack testing event. 	<ul style="list-style-type: none"> Indicator range: Shown in the table below. Excursion: Water-to-fuel ratio averaged over a 1-hour block period outside the indicator range. Data points shall be collected every minute at a minimum, averaged over a 1-hour block period.

Indicator Range for Water-to-Fuel Ratio	
Load, percent	Water-to-Fuel Ratio Indicator Range
50	Greater than 0.20
75	Greater than 0.30
100	Greater than 0.50

24. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
 (9 VAC 5-80-110 E and 40 CFR 64.6(c))
25. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
 (9 VAC 5-80-110 E and 40 CFR 64.7(b))
26. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the simple cycle combustion turbines are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
 (9 VAC 5-80-110 E and 40 CFR 64.7(c))
27. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the simple cycle combustion turbines (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
 (9 VAC 5-80-110 E and 40 CFR 64.7(d)(1))

28. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-110 E and 40 CFR 64.7(d)(2))
29. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Piedmont Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-110 E and 40 CFR 64.7(e))
30. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Monitoring - Compliance Assurance Monitoring (CAM)** - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the simple cycle combustion turbines for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.
- (9 VAC 5-80-110 E and 40 CFR 64.8(a) and (b))
31. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Recordkeeping** - The continuous water to fuel ratio monitor required by this permit, the continuous monitoring data, and the quality assurance data shall, at the discretion of the Board, be used in calculating emissions to determine compliance with the NO_x emission limits and/or relevant emission standards. Each monitor is subject to such data capture requirements and/or quality assurance requirements as specified in this permit and as may be deemed appropriate by the Board (40 CFR 60.13 and 40 CFR 60 Appendix B).
(9 VAC 5-80-110, 9 VAC 5-160-170, and Condition 25 of the 3/5/13 Permit)
32. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content

and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

- a. Continuous megawatt generation rate during the period in which the Inlet Air Conditioning Systems and Wet Compression Systems are in operation.
- b. Hourly, monthly, and annual consumption of natural gas and fuel oil. Annual consumption to be calculated monthly as the sum of each consecutive 12 month period. Ratio of water to fuel for each fuel being fired shall accompany the hourly consumption record.
- c. Tests of the sulfur content of natural gas being fired in accordance with Subpart GG of the NSPS and the US EPA custom fuel monitoring schedule, approved on July 2, 1998.
- d. Tests for the sulfur and nitrogen content of all shipments (as defined in Appendix A) of fuel oil delivered to the facility.
- e. Calculations to demonstrate compliance with the fuel limitation requirements for any annual period when fuel oil was fired.
- f. Monthly and annual calculations of nitrogen oxides, sulfur dioxide, and carbon monoxide emissions based on monitoring of fuel consumption, annual emissions calculated monthly as the sum of each consecutive 12 month period.
- g. Results of all stack tests, visible emission evaluations and performance evaluations.
- h. A record of opacity observations, including corrective action or Method 9 observation results.
- i. Continuous monitoring system calibrations and calibration checks.
- j. Scheduled and unscheduled maintenance of the turbines and associated monitoring systems.
- k. Records of operator training.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9 VAC 5-80-110, 9 VAC 5-50-50, 40 CFR 60.334-5, and Condition 26 of the 3/5/13 Permit)

33. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Recordkeeping - Compliance Assurance Monitoring (CAM)**
Recordkeeping - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9 VAC 5-80-110 E and 40 CFR 64.9(b))
34. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Testing** - The permittee shall sample the No.2 distillate fuel oil storage tanks that supply ES-1, ES-2, ES-3, and ES-4 to determine the sulfur and nitrogen content on each

occasion that fuel is transferred (as referenced in Appendix A) to the storage tanks, from any other source or fuel vendor. Fuel oil sulfur content shall be determined using ASTM D2880 or another approved ASTM method incorporated in 40 CFR 60 by reference. Fuel oil nitrogen content shall be determined by following current ASTM procedures approved by the Administrator of the US EPA. Records of fuel oil sulfur and nitrogen content shall be available on site for inspection by DEQ personnel. They shall be kept on file for the most current five year period.

(9 VAC 5-80-110, 9 VAC 5-50-20 C, 40 CFR 60.334-5, and Condition 10 of the 3/5/13 Permit)

35. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Testing** - The permittee may use representative testing between the four simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5 and ES-6) at Dominion – Gravel Neck (Reg. No. 50336) and the four simple cycle combustion turbines (Ref. Nos. ES-1, ES-2, ES-3 and ES-4) at Dominion – Darbytown (Reg. No. 50997) under the following conditions:
- a. The permittee demonstrates that each of the combustion turbines at both facilities are low mass emission units as defined in 40 CFR 72.2 and 40 CFR 75.19 (a)(1)(i).
 - b. The permittee demonstrates that each of the units in the group (both facilities) are identical according to the following criteria in 40 CFR 75.19 (c)(1)(iv)(B)(1):
 1. Same size based on maximum rated heat input
 2. Manufacturer and model
 3. Same history of modification (having the same controls installed, same types of burners and have undergone major overhauls at the same frequency (based on hours of operation)
 4. Under similar operating conditions, the stack or turbine outlet temperature of each unit must be within 50 plus or minus degree Fahrenheit of the average stack or turbine outlet temperature for all of the units.
 - c. If the permittee cannot meet the criteria in 40 CFR 75. (c)(1)(iv)(B)(1), then the group of low mass emission units is not considered an identical group of units and individual appendix E testing of each unit is required as described by 40 CFR 75 (c)(1)(iv)(B)(4).
 - d. The permittee shall test three (3) of the eight (8) identical combustion turbines each test cycle. The eight identical units consist of the four simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5 and ES-6) at Dominion Gravel Neck (Reg. No. 50336) and the four simple cycle combustion turbines (Ref. Nos. ES-1, ES-2, ES-3 and ES-4) at Dominion – Darbytown (Reg. No. 50997). The testing shall be performed at least once every 20 calendar quarters as defined in 40 CFR Part 75 Appendix E.2.2. The permittee shall conduct the low mass emission (LME) test that is due before the end of the next cycle which ends in 2013 at Dominion – Gravel Neck (Reg. No. 50336) and then continue to test units in a selection process so that no individual units goes untested before repeating testing on the same unit in subsequent years.
- (9 VAC 5-80-110, 9 VAC 5-50-30, 9 VAC 5-50-410, 40 CFR Part 72.2 and 40 CFR 75.19(a)(1)(i), 75.19(c)(1)(iv)(B)(2))

36. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Testing** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations from the simple cycle combustion turbines to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Director, Piedmont Regional Office.
(9 VAC 5-80-110, 9 VAC 5-50-30 G, and Condition 24 of the 3/5/13 Permit)
37. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)
38. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Reporting** - The permittee shall submit quarterly excess emission reports to the Piedmont Regional Office (PRO) of the DEQ within 30 days after the end of each calendar quarter or semi-annually as needed. Details of the quarterly reports are to be arranged with the Piedmont Regional Office (PRO). Each quarterly report shall cover, at a minimum, the dates included in the calendar quarter and provide the following information for each day in the quarter, report each hour during which the water to fuel ratio fell below that required to demonstrate compliance with the nitrogen oxides permit limit, copy of the written notification and corrective action taken. The report shall include the following for each period described above: start time, duration, actual and required water-to-fuel ratio, fuel type and consumption rate, nitrogen content of fuel oil (if oil-fired), ambient temperature and the simple cycle combustion turbine load. If, during the calendar quarter, there are no times when the water to fuel injection ratio fell below that required to demonstrate compliance, the permittee shall state in the quarterly report that no such events occurred during the affected calendar quarter.
(9 VAC 5-80-110, 9 VAC 5-170-160, 9 VAC 5-50-50, 40 CFR 60.7, 40 CFR 60.334, and Condition 27 of 3/5/13 Permit)
39. **Fuel Burning Equipment Requirements** – (ES-1a and b, ES-2a and b, ES-3a and b, and ES-4a and b) - **Reporting - Compliance Assurance Monitoring (CAM) Reporting** - The permittee shall submit CAM reports as part of the quarterly or semi-annual reports required by Condition 38 and General Condition 59 of this permit to the Director, Piedmont Regional Office. Such reports shall include at a minimum:
- Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
- (9 VAC 5-80-110 F and 40 CFR 64.9(a))

Degreasing Operations – (ES-5)

40. **Process Equipment Requirements – (ES-5) - Limitations** – No owner or other person shall use or permit the use of any cold cleaner unless such cleaner is equipped with a control method that will remove, destroy or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions. Achievement of this emission standard by use of the methods in Conditions 41, 42, and 43 will be acceptable to the board. (9 VAC 5-80-110 and 9 VAC 5-40-3280 C)
41. **Process Equipment Requirements – (ES-5) - Limitations** – VOC emissions from emission unit ES-5 shall be controlled as follows:
- a. Covers or enclosed remote reservoirs shall be provided. Covers shall be designed so that they can be easily operated with one hand. (Covers for larger degreasers may require mechanical assistance, by spring loading, counterweighting or powered systems). Enclosed remote reservoirs shall be designed such that they provide reduction effectiveness equivalent to that of a cover.
 - b. External or internal drainage facilities shall be provided to collect and return the solvent to a closed container or a solvent cleaning machine. The drainage facilities may be external for applications where an internal type cannot fit into the cleaning system.
 - c. A permanent label summarizing the operating procedures in Condition 42 shall be placed in a conspicuous location on or near emission unit ES-5.
 - d. If used, the solvent spray should be a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing. (9 VAC 5-80-110 and 9 VAC 5-40-3290 C1)
42. **Process Equipment Requirements – (ES-5) - Limitations** – The permittee shall operate emission unit ES-5 consistent with good operating practices including the following:
- a. Waste solvent shall not be disposed of or transferred to another party, such that greater than 20% of the waste (by weight) can evaporate into the atmosphere. Waste solvent shall only be stored in closed containers.
 - b. The degreaser cover shall be closed whenever not handling parts in the cleaner.
 - c. Cleaned parts shall be drained for at least 15 seconds or until dripping ceases. (9 VAC 5-80-110 and 9 VAC 5-40-3290 C2)
43. **Process Equipment Requirements – (ES-5) - Limitations** – The permittee shall dispose the waste solvent from solvent metal cleaning operations by one of the following methods:
- a. Reclamation (either services or in-house)
 - b. Incineration (9 VAC 5-80-110 and 9 VAC 5-40-3290 D)
44. **Process Equipment Requirements – (ES-5) – Monitoring and Recordkeeping** – The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:
- a. Records documenting that each solvent cleaning operation (cold cleaning) at the facility is in compliance with the requirements of Conditions 40-44. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years. (9 VAC 5-80-110)

Facility Wide Conditions

45. **Facility Wide Conditions - Limitations** - The total annual emissions from the electric generating facility shall not exceed the limits specified below:

Particulate Matter	9.5 tons/yr
PM-10	9.5 tons/yr
Sulfur Dioxide	193.2 tons/yr
Nitrogen Oxides (as NO ₂)	245.5 tons/yr
Volatile Organic Compounds	4.8 tons/yr
Carbon Monoxide	32.6 tons/yr

Annual emissions calculated monthly as the sum of the previous consecutive twelve month period.

(9 VAC 5-80-110, 40 CFR 60.332-3, and Condition 20 of the 3/5/13 Permit)

46. **Facility Wide Conditions - Testing** - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
 (9 VAC 5-80-110, 9 VAC 5-50-30 F, and Condition 11 of the 3/5/13 Permit)
47. **Facility Wide Conditions - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
 (9 VAC 5-80-110)

Insignificant Emission Units

48. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity 9 VAC 5-80-720 C)
IS-1	Two No. 2 Fuel Oil Storage Tanks	9 VAC 5-80-720B	VOC	3,125,000 gallons each
IS-2	Three Oil/Water Separators	9 VAC 5-80-720B	VOC	350 to 2000 gallons
IS-3	Natural Gas Heaters	9 VAC 5-80-720C	PM, CO, VOC, SO ₂ , NO _x	6.87 MMBtu/hr total
IS-4	Turbine Glycol Cooling Systems (4)	9 VAC 5-80-720B	VOC, HAP	Less than 1000 gallons total
IS-5	Turbine Lube Oil Systems (4)	9 VAC 5-80-720B	VOC	Less than 15,000 gallons total

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

49. Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
9 VAC 5-40-900	Particulate Matter Standard for Fuel Burning Equipment	The combustion turbines must meet the NSPS Subpart GG requirement since it is more stringent than Rule 4-8.
9 VAC 5-40-930	Sulfur Dioxide Standard for Fuel Burning Equipment	The combustion turbines must meet the NSPS Subpart GG requirement since it is more stringent than Rule 4-8.
9 VAC 5-40-940	Visible Emission Standard for Fuel Burning Equipment	The combustion turbines must meet the BACT requirement since it is more stringent than Rule 4-8.
40 CFR 60, Subpart Kb	Standards of Performance for VOC Storage Vessels including Petroleum Liquid Storage Vessels (After July 23, 1984)	This Subpart does not apply to the two No.2 distillate oil storage tanks (IS-1) because it no longer contains the recordkeeping requirements for this tank type.
40 CFR 60, Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	This Subpart does not apply to the combustion turbines since the construction of these units commenced before February 18, 2005.
40 CFR 43, Subpart T	National Emission Standards for Halogenated Cleaning	This Subpart does not apply to the degreasing operations (ES-5) because halogenated products are not used.
40 CFR 63, Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	This Subpart does not apply to the combustion turbines since they are considered existing units and are exempt pursuant to 40 CFR 63.6090(b)(4).

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

General Conditions

50. **General Conditions - Federal Enforceability** -All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)
51. **General Conditions - Permit Expiration**- This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
52. **General Conditions - Permit Expiration**- The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
53. **General Conditions - Permit Expiration**- If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
54. **General Conditions - Permit Expiration**- No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
55. **General Conditions - Permit Expiration**- If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
56. **General Conditions - Permit Expiration**- The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
57. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.

- c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
- (9 VAC 5-80-110 F)

58. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)

59. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."
- (9 VAC 5-80-110 F)

60. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31.

- b. The identification of each term or condition of the permit that is the basis of the certification.
- c. The compliance status.
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- f. Such other facts as the permit may require to determine the compliance status of the source.
- g. One copy of the annual compliance certification shall be sent to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3 APD Permits@epa.gov

(9 VAC 5-80-110 K.5)

- 61. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition 57 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
- 62. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Regional Office.
(9 VAC 5-20-180 C)

63. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)
64. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)
65. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)
66. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)
67. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)
68. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
69. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)
70. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

71. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
 - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9 VAC 5-50-90)
72. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- (9 VAC 5-50-20 E)
73. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
- (9 VAC 5-80-110 J)
74. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

75. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

76. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

77. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

78. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

79. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

80. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of Condition 81 are met.
(9 VAC 5-80-250)
81. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- (9 VAC 5-80-250)
82. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)
83. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)
84. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
85. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional

information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

86. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)
87. **General Conditions – Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)
88. **General Conditions – Changes to Permits for Emissions Trading** – No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)
89. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
 - a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
(9 VAC 5-80-110 I)
90. **General Conditions – Clean Air Interstate Rule (CAIR) Requirements** - The permittee shall comply with all applicable CAIR requirements (9 VAC 5-140-1010 *et seq.*, 9 VAC 5-140-2010 *et seq.*, 9 VAC 5-140-3010 *et seq.*, and 40 CFR Part 96) by the compliance date in the respective Part of 9 VAC 5 Chapter 140. The CAIR application in Appendix B to this document contains specific conditions and expires upon expiration of this Title V permit.
(9 VAC 5-80-110, 40 CFR Part 96, and 9 VAC 5 Chapter 140)

Appendix A

No. 2 Fuel Oil Transfers – Darbytown Power Station

Station Process: The station receives fuel oil by truck transport where the fuel oil from the trucks is transferred into one of the station's two 3,125,000 gallon tanks. Prior to receiving oil one of the fuel oil tanks is identified as the receiving tank and is isolated from service per the station's operating procedure. The tank is valved and tagged closed until the "shipment" is completed and the tank is sampled and analyzed per ASTM methods.

Once the station reviews the fuel oil analyses and confirms that the fuel oil quality complies with the Title V air permit limitations then the fuel oil tank is released for service. This methodology is in accordance with 40 CFR 60 Subpart GG. Copies of the analyses along with the truck manifests and associated volumes are maintained at the station.

Fuel Oil 'Shipment' Definition: A 'shipment' or 'transfer' is a series of truck transport loads of oil. The source of oil may be a Dominion or a vendor owned source. Prior to any fuel movement within the Dominion system the Dominion Fuels Contracts Group assures the oil meets each station's fuel oil quality regulatory requirements.

Appendix B

CAIR Permit Application (see attached)

Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
Web Address: www.dom.com

RECEIVED

NOV 19 2012

PRO



Dominion®

50997

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

November 16, 2012

Mr. James E. Kyle
Air Permit Manager
Virginia Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

RE: Darbytown CT Station: CAIR Renewal Application

Dear Mr. Kyle:

Enclosed please find the CAIR renewal application for Darbytown CT Station. The Certificate of Representation was completed on-line via the CAMD website, so a copy of the Certificate of Representation report has been included for your reference.

If you have any questions regarding the application, please call Liz Willoughby at (804) 273-3740.

Sincerely,

Cathy C. Taylor
Director, Electric Environmental Services

Enclosures

CAIR Permit Application

(for sources covered under a CAIR SIP)

Page 1

For more information, refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322

This submission is: ☐ New ☒ Revised

STEP 1
Identify the source by plant name, State, and ORIS or facility code

Plant Name	Dominion – Darbytown CT Station	State	VA	ORIS/Facility Code	7212
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STEP 2
Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO _x Annual	SO ₂	NO _x Ozone Season
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X

STEP 3
Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and such CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable).

Plant Name (from Step 1) **Dominion – Darbytown CT Station**

**STEP 3,
continued**

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(2) The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) with the CAIR NO_x emissions limitation, CAIR SO₂ emissions limitation, and CAIR NO_x Ozone Season emissions limitation (as applicable) under paragraph (c) of §96.106, §96.206, and §96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under §96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO_x unit shall be subject to the requirements under paragraph (c)(1) of §96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.106, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.

(4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO_x unit.

Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period under §96.254(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.206, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR SO₂ allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under §96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of §96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.370(b)(1), (2), (3) or (7) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.306, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name (from Step 1) **Dominion – Darbytown CT Station**

**STEP 3,
continued**

(d) Excess emissions requirements.

If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO_x Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.

(1) Each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x units, CAIR SO₂ units, and CAIR NO_x Ozone Season units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) **Dominion – Darbytown CT Station**

**STEP 3,
continued**

(g) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name C. D. Holley	
Signature 	Date 11/19/2012

Certificate of Representation Report

12/05/2011

Facility Information

Facility ID
(ORISPL): 7212

Facility Name: Darbytown Combustion
Turbine

State: VA

County: Henrico

EPA AIRS
ID:

Latitude: 37.4978 Longitude: -77.3680

Facility Detail (Mini Detail)

Representative Information

Name: Charles D Holley

Company: Dominion Resources Services, Inc

Title: VP, Fossil & Hydro, System Ops

Address: VA 23060

Phone: (804) 273-3592

Fax: (804) 273-2433

Alternate:

Email: Dominion.System.DR@dom.com

Name: Kenneth J Lazzaro

Company: Virginia Electric & Power Company

Title: Station Director

Address: VA 23323-6199

Phone: (757) 485-6800

Fax: (757) 485-6836

Alternate:

Email: kenneth.lazzaro@dom.com

People Detail Layout (Multiple)

Current Representatives

Program	Primary Representative, Effective Date	Alternate, Effective Date	Primary Representative, End Date	Alternate, End Date
CAIRNOX	Charles D Holley, 12/26/2007	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011
CAIROS	Charles D Holley, 12/26/2007	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011
CAIRSO2	Charles D Holley, 12/26/2007	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011
TRNOX	Charles D Holley, 09/27/2011	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011
TRNOXOS	Charles D Holley, 09/27/2011	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011
TRSO2G1	Charles D Holley, 09/27/2011	Kenneth J Lazzaro, 12/05/2011		David E Snoddy, 12/05/2011

Basic Table Layout

Units

Unit ID	Program	Unit Classification	Operating Status	Unit Type	Indian Country	Source Category	NAICS Code	Commence Operation Date	Commence Operation Date Code	Comm. Commercial Operation Date	Commence Commercial Operation Date Code	Unit Monitoring Certification Begin Date
1	CAIRNOX	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric	05/01/1990	A	05/01/1990	A	01/01/2008

[illegible]

3	TRNOXOS	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	05/01/2012
3	TRSO2G1	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	01/01/2012
4	CAIRNOX	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	01/01/2008
4	CAIROS	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	05/01/2008
4	CAIRSO2	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	01/01/2009
4	NBP	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	05/01/2003
4	TRNOX	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	01/01/2012
4	TRNOXOS	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	05/01/2012
4	TRSO2G1	Affected	Operating	CT	No	Electric Utility	Fossil fuel electric power generation	04/02/1990	A	04/02/1990	A	01/01/2012

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Generator Information

Generator ID	Unit ID	ARP Nameplate Capacity (MWe)	CAIR/Transport Rule Nameplate Capacity (MWe)	Effective Date
1	1		92.100	06/04/2007
4	4		92.100	06/04/2007
3	3		92.100	06/04/2007
2	2		92.100	06/04/2007

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Current Owners and Operators

Unit ID	Owner/Operator Company Name	Type	Effective Date	End Date
1	Dominion Generation	Operator	03/07/2003	
1	Virginia Electric & Power Company	Owner	03/07/2003	
2	Dominion Generation	Operator	03/07/2003	
2	Virginia Electric & Power Company	Owner	03/07/2003	
3	Dominion Generation	Operator	03/07/2003	
3	Virginia Electric & Power Company	Owner	03/07/2003	
4	Dominion Generation	Operator	03/07/2003	
4	Virginia Electric & Power Company	Owner	03/07/2003	

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